

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/35087

|                                                                                                                                                  |                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A. CLASSIFICATION OF SUBJECT MATTER</b>                                                                                                       |                                                                                                                                                                                                                                                                 |
| IPC(7) : C12N 15/11; C12Q 1/68; A61K 48/00<br>US CL : 536/23.1; 435/6; 514/44                                                                    |                                                                                                                                                                                                                                                                 |
| According to International Patent Classification (IPC) or to both national classification and IPC                                                |                                                                                                                                                                                                                                                                 |
| <b>B. FIELDS SEARCHED</b>                                                                                                                        |                                                                                                                                                                                                                                                                 |
| Minimum documentation searched (classification system followed by classification symbols)<br>U.S. : 536/23.1; 435/6; 514/44                      |                                                                                                                                                                                                                                                                 |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched                    |                                                                                                                                                                                                                                                                 |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)                     |                                                                                                                                                                                                                                                                 |
| <b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>                                                                                                    |                                                                                                                                                                                                                                                                 |
| Category *                                                                                                                                       | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                              |
| X                                                                                                                                                | PARRISH, S. et al. Functional Anatomy of a dsRNA Trigger: Differential Requirement for the Two Trigger Strands in RNA Interference. Molecular Cell. November 2000, vol 6, pages 1077-1087, especially figures 5 and 6.                                          |
| X                                                                                                                                                | ELBASHIR, S. et al. Functional Anatomy of siRNAs for mediating efficient RNAi in Drosophila melanogaster embryo lysate. The EMBO Journal. 2001, vol. 20, pages 6877-6888, see entire document.                                                                  |
| X                                                                                                                                                | GRIFFEY et al. 2'-O-Aminopropyl Ribonucleotides: A Zwitterionic Modification that Enhances the Exonuclease Resistance and Biological Activity of Antisense Oligonucleotides, Journal of Medicinal Chemistry 1996, Vol 39, pages 5100-5109, see entire document. |
| X                                                                                                                                                | PITTS et al. Inhibition of human telomerase by 2'-O-methyl RNA Proceedings of the National Academy of Sciences of the USA September 1998, Vol 95, pages 11549-11554, see entire document                                                                        |
| E,X                                                                                                                                              | US 2003/0206887 A1 (MORRISSEY et al.) 6 November 2003 (6.11.2003), see entire document, particularly paragraphs 49-91.                                                                                                                                          |
|                                                                                                                                                  | Relevant to claim No.                                                                                                                                                                                                                                           |
|                                                                                                                                                  | 1-13, 36-46, 69-76                                                                                                                                                                                                                                              |
|                                                                                                                                                  | 1-11, 14, 15, 18, 22, 36-44, 47, 48, 51, 55, 75, 76                                                                                                                                                                                                             |
|                                                                                                                                                  | 1, 11, 14, 15, 36, 44, 47, 48                                                                                                                                                                                                                                   |
|                                                                                                                                                  | 1-4, 7-11                                                                                                                                                                                                                                                       |
|                                                                                                                                                  | 1-83                                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex. |                                                                                                                                                                                                                                                                 |
| * Special categories of cited documents:                                                                                                         |                                                                                                                                                                                                                                                                 |
| "A"                                                                                                                                              | document defining the general state of the art which is not considered to be of particular relevance                                                                                                                                                            |
| "E"                                                                                                                                              | earlier application or patent published on or after the international filing date                                                                                                                                                                               |
| "L"                                                                                                                                              | document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)                                                                                             |
| "O"                                                                                                                                              | document referring to an oral disclosure, use, exhibition or other means                                                                                                                                                                                        |
| "P"                                                                                                                                              | document published prior to the international filing date but later than the priority date claimed                                                                                                                                                              |
| "T"                                                                                                                                              | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention                                                                 |
| "X"                                                                                                                                              | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone                                                                                        |
| "Y"                                                                                                                                              | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art                    |
| "Z"                                                                                                                                              | document member of the same patent family                                                                                                                                                                                                                       |
| Date of the actual completion of the international search                                                                                        |                                                                                                                                                                                                                                                                 |
| 20 December 2004 (20.12.2004)                                                                                                                    |                                                                                                                                                                                                                                                                 |
| Date of mailing of the international search report                                                                                               |                                                                                                                                                                                                                                                                 |
| 24 JAN 2005                                                                                                                                      |                                                                                                                                                                                                                                                                 |
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Form PCT/ISA/210 (second sheet) (July 1998)